

SEQUENCE LISTING

<110> Salceda, Susana
 Macina, Roberto
 Recipon, Herve
 Sun, Yongming
 Liu, Chenghua

<120> Compositions and Methods Relating to Prostate Specific Genes and Proteins

<130> DEX-0283

<150> 60/252,189

<151> 2000-11-21

<160> 217

<170> PatentIn version 3.1

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<213> Homo sapien

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<212> DNA
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taatattggt caactaggct tgaaaatttg gaggcataag atctttttct ctctctttta 240
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<213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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<213> Homo sapien

<400> 15

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<212> DNA

<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<212> DNA
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tggtgattac attcaccatt ataacaggaa cttataaaga caaaaacca tgtgagtcac 480
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<210> 19
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aatcagtaat aaatagccta ccaaccacaa aaagcccagg accagacgga ttcacagctg 360
aattctacca ggtatacaaa gaagagctgg taccattcct gttgaaacta ttccaaaaaa 420
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ggttataatg ttctctaatt gaccaattag aattgttaaa attctccttc ttagaaaaaa 600
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aacttataaa gacaaaaacc catgtgagtc attcctcaat tagatgtgca gaagaagagc 840
atttcaatta aagggccata acatttcttt tgattaatta aaattcttct catacaaatt 900
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<213> Homo sapien

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taaaaatatt cagtctattg gaatatatcc ctaattctaa ttaaaagctg aataaacttc	300
ttgctagtat taattagttg tgggtgtgaa ttcatcagg tccccatcgt attaatgaag	360
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tttttactca aaatatagtt tatattaata aactggaaag acatcagaag ttagacagc	480
tactgtaaaag taaatattaa atgtaggact caatcaacaa gaataactat aaagaatatg	540
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<210> 21

<211> 888

<212> DNA

<213> Homo sapien

<400> 21

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gacattcata aaatagatag taaagataaa tttaaaagcc aaccagtggc ctcaccctct	420
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 <213> Homo sapien

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 cagccatagt ttattcacat actgtattca aataatatta gacttaataa tttcaaaaat 180
 acatatttag gcctctgctg tatgagtaac agagataatc ttttaatttcc cttcccttcc 240
 ccacagagca cttggtgtaa atggaatatt tggctctgtat atgtctcact ttcagtagtt 300
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 ata 363

<210> 23
 <211> 383
 <212> DNA
 <213> Homo sapien

<400> 23
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 ctcatataa ttgtggattt gactattcct cttttagtagt cttccagttt ttgatttggtg 180
 tatcttacag ctctgtcatt atgtgcata gtatttcgaa ttgttatgtc ttcttgatag 240
 ttaacctctt taatcactgt aaaatgacct tttttatcct cagtaatatg aattgttcca 300
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 <211> 711
 <212> DNA
 <213> Homo sapien

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 caattatggt aactctataa tgtcagctctg gcacaataac ttttaggcct aattttctca 180
 tctaaacata gtatgggtat aacaacgatg atcttaccga tattacaaaa tttttttgag 240

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 gaactaacat tgtcttaact cggtacatgg tgttgaggtc cgttatattt aataactaacg 420
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 ggctacgac acactaacta tgatagtgtt tataaataac ccagattcta caccaagaag 600
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<210> 25
 <211> 812
 <212> DNA
 <213> Homo sapien

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 aagtggtaat accccttgga gaactctaga tccactccag catctgtagt gtagaacaac 720
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 <211> 440
 <212> DNA
 <213> Homo sapien

<400> 26

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 acagaatctc aggaagtgtc tgagaaccac ccaaatatga atggaattga ctaatggtga 420
 ttgctgcact ggttatgggt 440

<210> 27
 <211> 164
 <212> DNA
 <213> Homo sapien

<400> 27
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 ccgccagtgc ttaatgtagt atctgcagaa tacggcttac aataaaccgc catgacacat 120
 gcacccctga acctaaaata aaagtttaat aaagtcacat ttga 164

<210> 28
 <211> 186
 <212> DNA
 <213> Homo sapien

<400> 28
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 cctggagcct tcattcagtt tgtagctttg tagttgatac ttcaaattatt ataagatcac 180
 tgggtgt 186

<210> 29
 <211> 186
 <212> DNA
 <213> Homo sapien

<400> 29
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<210> 30
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 <212> DNA
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 <223> a, c, g or t

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 atcagtagga ggaaggcctt atcaaaagag cacaggctgg gcgatgtcaa aaggnggnag 660
 tgatgatgaa tagtacnaaa tgctccttaa ac 692

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 <211> 530
 <212> DNA
 <213> Homo sapien

<400> 31
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 accctatttt ttagtgtaat atttgtattc ttctaagtt ttttttgggt tggttggttg 180
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<210> 32
 <211> 663
 <212> DNA
 <213> Homo sapien

<400> 32
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 ccttgaactt aatgggtcac aactagtctt tcatttactc ccaccaata tccatttata 420
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<210> 33
<211> 694
<212> DNA
<213> Homo sapien

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attattttgc ttcttatttg ttttaacactt tattttaaaa aaatcaaaag cagtttttga 180
aagaactaca gacagacttc ttggccccta aatacatcaa tgaatcaatg cctagaactg 240
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actgaatata tcttcgatgt gtattccaga aaaaacaggc cattttatcc aagaccaaga 600
gcaccccaca aaaaaacaaa agcaaaggga aatttctttt gtttttgtaa gtcaattcaa 660
gacgagaaat aatatgcctg catatggctt tagc 694

<210> 34
<211> 564
<212> DNA
<213> Homo sapien

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cacatacagt gagtattaaa tagcaaaact agattacttt attctgaaat acaccttcat 180
tgagagttaa agtattaata attccacatt tatgtttcag aagaaatcaa gaggttcaca 240
aatatccctt aagaaatatt ttactactta tttcttctca caaatttgtc acatggaact 300
gtgcattatc attcatatga attcacaatt tataacctat ttgctctaaa gaattcatta 360
caatttaocgg tatgaatgga aactaaacat agagaaagtg cctaaacact acacattgat 420
tcaatggata aattttttat tataaaataa attattcagt tcatggtttc tgacaaaaat 480

cagatcctcg ctatcatata tatattaaat acactattaa aatccaacat gccatgtaat 540
gtattcattc tggattccaa cagt 564

<210> 35
<211> 639
<212> DNA
<213> Homo sapien

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<211> 871
<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien

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gggtggggg 188

<210> 38
<211> 419
<212> DNA
<213> Homo sapien

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<210> 39
<211> 358
<212> DNA
<213> Homo sapien

<400> 39
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 <213> Homo sapien

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 <211> 201
 <212> DNA
 <213> Homo sapien

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<210> 42
 <211> 814
 <212> DNA
 <213> Homo sapien

<400> 42
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<213> Homo sapien
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<210> 44
 <211> 770
 <212> DNA
 <213> Homo sapien

<400> 44
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 ttctggacca aataaatctg gaaaatgcta ttcttatgcc atcatattta agaacagtaa 180
 tatatcattt taatagcttc tctgccatgt cacacatggg gaggacaaaa catcttttaa 240
 ctaacaaaag agattcagag aggaaactaa aatcagagat cttggtagaa aacatagca 300
 aaaggatata aattatcgta aaaggttatt gttttattca aatagacaat ttacataaat 360
 gaccagctgt atacttgaag ctagtggcaa cacatgtaaa agcctgcaaa accaattcca 420
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 caaatTTata ctttcaacta ctgactcaaa aaactgggac agtcctgtta catgagaaca 540
 gctaattgta aaaaaagtga atctgatcac tttaatgatt ctacctattc ttatattaaa 600
 ttttgtataa aaccactgaa aattggactt tttatgaaga aaagtgttcc ctgaacaaac 660
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<210> 45
 <211> 614
 <212> DNA
 <213> Homo sapien

<400> 45
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 tccctccctt tagttcatag tagagtccc ttttgaatgc tgccgcccac ctttagcttt 180
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<210>	46
<211>	656
<212>	DNA
<213>	Homo sapien

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<210> 47
<211> 550
<212> DNA
<213> Homo sapien
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 cgccagtgc cccagaccat aacccaacat ttttaacatg tgcataaac aactacctaa 480
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 ccaaagaagt 550

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 <213> Homo sapien

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 tggaccaagg gggctagccc aaaagggaag ctaagtgtta tgactagatt gaaactctgg 180
 tgccagctat tttagggttt cacatacaat tctttatata actggtaaac cataaactgg 240
 cttccccttt ggtggatata cttttaagta tttctgggat gtgtttatat ggcagtttagc 300
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<210> 49
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 <213> Homo sapien

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 atttgaatcc agtgattctg gtgattgatt ttttgtaatg aaagtattaa aataccagtt 180
 gataacatct tagatatttt ctttttgatt tttgtttcca gctctgttaa taatttctaa 240
 ttttgctcct attgtaaaca gagaatactg gccatgcaat tacttcattt ttttgtcatt 300
 tattaaatat tcatttctaa ttgtagt 327

<210> 50
 <211> 485
 <212> DNA
 <213> Homo sapien

<400> 50
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<210> 51
<211> 431
<212> DNA
<213> Homo sapien
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<210> 52
<211> 605
<212> DNA
<213> Homo sapien
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		actttggctc	ttatgaataa	tgcttctatg	aataatcaca	tacaagtatt	tttggggaaa	180
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		ggaaattaaa	attgtattct	actagatata	cactttgtga	tcaatatgga	aattaaaatt	300
		gtattctact	agaaaaacaa	tttgtgatca	atagggaaat	taaaattgta	tactactaat	360

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 tacgttttat tggatttttt tttttttttg agacagagtc tcgctctggt gccagggcg 540
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<210> 53
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 <212> DNA
 <213> Homo sapien

<400> 53
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 aatcagcatt cttccccaca tttatagtaa acataatttt tatataaaat atttgtaagt 180
 attggcagca tgcacaagca gcatgtgctt tttgtcatac attctcacag ttggtaaatt 240
 aaaatcaaga tagatctatg ggactctata tcattaagat tactcaagggt ctgaaaaaca 300
 ccttaaacc cttggtttctc ctttcagtga ttaagcatag tctttctaaa ttagcttgtg 360
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 atggt 425

<210> 54
 <211> 482
 <212> DNA
 <213> Homo sapien

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 tgcagtgcac atcaattgat ggcttaaagc cacaatcagg ggtgactgct tctctgacca 240
 aaaacaaata aaggtaagaa tgtataataa atcctaataca tatttttttc cgacaatatc 300
 cccacaacct cagaatggtc tgctgcagag aaccttggtt tctgtatcag actaatgtct 360
 aaaaaaactg attctaaaaa tataggcttt tgcaagtcaa agatataaga taggaataaa 420
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<210> 55
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 <212> DNA
 <213> Homo sapien

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 tgcagtgcac atcaattgat ggcctaaagc cacaatcagg ggtgactgct tctctgacca 240
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 aaaaaactg attctaaaaa tataggcttt tgcaagtcaa agatataaga taggaataaa 420
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 gtgacctctg cgctaaacag ttggtatgcc ccatcacatc acagccttac atttccatac 780
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<210> 56
 <211> 824
 <212> DNA
 <213> Homo sapien

<400> 56
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 ttcagttagt catattttct ataaatttaa agaaaagaaa ttaatagtat atgcactctc 180
 atttttacta ttttatctta tatcagtata tagtcttcat tacctattac tatatccaag 240
 tatttctatt atctattttg tctagaagaa ctttaacgtt tctttagta gaaggtttga 300
 gaattagatc agagtacctg gaagccaagt agaatagaag tatatcaaga agataggaag 360
 tagctacaac ctatgctaga tcggtagaag aaataggagg aataaagaat tagaccctat 420
 agatttcaat aacttgtagt atagaagtac ttttctgata gaaaacaaat gattatttag 480
 tcaaaggaat tcgcaaaagg aaaattcagt atcagccata cctatttgga tctacatgga 540

tattctaaat attgaccaag aggtaattgt acagagtagg catagaaggt tcattacagt 600
 agtagtagta taatagtaaa aaatgtaatg tatgtaacta cttgtataga gtaaggaaat 660
 tatgggatga agtgaactgt agcccttaaa aatgaaaacg tagaactaca atgatgtgga 720
 aagatgtgca tgacacatgg aaaaaacagt taaccgaaga gcatgtttta aacaattttc 780
 acttacatat atgcagtttt cagtctgtgt acctcggcca agcc 824

<210> 57
 <211> 675
 <212> DNA
 <213> Homo sapien

<400> 57
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 tcataatgaa tagttctact aatgtccact tgttcaatgg aaagtatgga cctcttagat 180
 tcgcttccaa attcctccca aaatgactgt caataactctt gttattgaac ctggaaaaaa 240
 aagtttctaa tatattattg atcacttatac aattccccaa actgacgaca gcagttctta 300
 gattgaactg ttaaaccctg ttcacatga ttatgaactg aatgattgta tgcagtttat 360
 gggttttatg tctgcagtca ttccttcatt tttccataga aatgatataa acaatgatga 420
 tgtaatttaa attttattca attatttatg gggtttatgt ctgcagtcac tccttcattt 480
 tcccatagaa atgatataaa caatgatgat gtaatttaaa ttttattcaa tttactggat 540
 tttaaatgtt ttctacatgg agaccatgaa gaggaactat gttcagagaa aatgtctaca 600
 aagcaggacc atggccaacc acttttcatac taaccgaatt cactaaaagt acctcgcacg 660
 cgaccacgct aagcc 675

<210> 58
 <211> 596
 <212> DNA
 <213> Homo sapien

<400> 58
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 aacccttacg agagtgaggg gaatatccac gagggggggg taggccactg cgggggatag 360

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 aagggtttggg cccaatgggg tggtccccct gaagaatgtg gggaaccccc gggaagatga 540
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<210> 59
 <211> 813
 <212> DNA
 <213> Homo sapien

<400> 59
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 gggaacaagc aggcactgta tggagggcag acaggcccaa acccaggtct tccgtctctg 180
 cagggagcac aatgtgtgca aacatatcaa gaaaagttga cattgttaca gacactgcca 240
 gaggtaagga gaaaaaaatc aacatctggt aaaagccatc ccaaagcttt gcacacacac 300
 caaaaaaaaaa ggttgattgg tggaaatgta gctactaata ataaactggg ctccctaatta 360
 acaggatatc actatggcta aggataaagc tgaattgagg cgtatatatt actgatgaag 420
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 cacatatgac ttccctaagaa taccactacc tagcctactc attcagtgga tgtgacatga 540
 agtttccagg accagtagaa ttataatggg atatgaatat aatcttcgga gctctgtttc 600
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 ttttcagtgc cccaatttgt gaattcttaa agagggcatc ttgtcgtagt ctgttagcgt 720
 tgctgcaaac gcactacctg aggctgagta attggtaaag gagagagggtg tacttggtctg 780
 cacagctctg cagcctgtaa ccgatgggc aga 813

<210> 60
 <211> 1220
 <212> DNA
 <213> Homo sapien

<400> 60
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gaggtaagga gaaaaaaatc aacatctggt aaaagccatc ccaaagcttt gcacacacac 300
 caaaaaaaaaa gggtgattgg tggaaatgta gctactaata ataaactggg ctcctaatta 360
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 cacatatgac ttcctaagaa taccactacc tagcctactc attcagtgga tgtgacatga 540
 agtttccagg accagtagaa ttataatggg atatgaatat aatcttcgga gctctgtttc 600
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 tgctgcaaac gcactacctg aggctgagta atttgtaaag gaaagagggt tatttggtc 780
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 caaagtctac caggagggtga ttaaagtgat atgacaatgt gaggtatatg ttacctggaa 1140
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<210> 61
 <211> 347
 <212> DNA
 <213> Homo sapien

<400> 61
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 ttggggaata tatccatcac tactccccca aaattttcct catgaattcc tttgtaattt 180
 cattaccttt cttccccatc tccaggaccc ttgcatcctc aggtaaccac ggatctgcct 240
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 tgtgcccttt tcttgtctta gttctttact cacaataatt cggggaa 347

<210> 62
 <211> 470
 <212> DNA
 <213> Homo sapien

<400>	62								
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attccatcct	gttttgctgt	gttgatgttt	gccattatga	aaaaaattgg	atggcatttt				180
ttaaaaaaga	catagtccat	tgatttaaga	caagggtggg	gcttccaaag	atgctttgat				240
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ttaaaggaaa	tcatctat	tgaactagtt	agaaatcggt	gggtagatat	aacatatgaa				360
tacatgatag	taggtcacta	aaaaaaaa	ctgcttactg	cattttttaat	cattaatata				420
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<210> 63
<211> 688
<212> DNA
<213> Homo sapien
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<400>	63						
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cagacattgt	tattaagcgc	ctattttaag	gttttctcta	atattttccc	tcttaccccc		420
tagtgtgtgg	ccccatgggg	accacgcaa	accggtaaa	aaaaaccgaa	acctagccct		480
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gcaaatgggg	ggcgaaatat	ggtccgactc	gtcacagctg	gggtaccaga	caaagcgccc		660
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<210> 64
<211> 807
<212> DNA
<213> Homo sapien
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<223> a, c, g or t
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<222> (137)..(137)
<223> a, c, g or t

<220>
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<222> (139)..(140)
<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

<220>
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<223> a, c, g or t

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<223> a, c, g or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> a, c, g or t

<220>
 <221> misc_feature
 <222> (163)..(163)
 <223> a, c, g or t

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 <222> (165)..(166)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (178)..(178)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (247)..(247)
 <223> a, c, g or t

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 attcnctttc aancnangnn anttntnggn gtggncttnt ttnannccca accccaanga 180
 aaaattctag ttttcttttg cctatagggt tttatattgt ttgaggcaac aagcattacc 240
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 taaggatata ttgagacaca ttgtcaaata ttttggccaa tgccagaccc aaaggggaaa 720
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atattaaaaat aattgaaatt gtatagt

807

<210> 65
 <211> 257
 <212> DNA
 <213> Homo sapien

<400> 65
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 aagtgaacta atatcgttat catatcgta attcaagcat gttaaaaaaa gctaaacgaa 180
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<210> 66
 <211> 898
 <212> DNA
 <213> Homo sapien

<400> 66
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 gaaggcattg ctacatggtc ttctagcttc ctgacactgc tgtggagaat gagaagtctg 180
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<210> 67
 <211> 677

<212> DNA

<213> Homo sapien

<400> 67

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gggcgcggtg cctcatgcct gtatcccagc actttgcgat gctgaggcag gcatgatcac	180
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aacacagaag agacacacac atcttattta ttgtgtgtgt atatgggagt gggagggtgtg	600
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ggtgtgcatc ttccctt	677

<210> 68

<211> 3809

<212> DNA

<213> Homo sapien

<400> 68

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<210> 69
<211> 485
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (461)..(480)
<223> a, c, g or t

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<210> 70
<211> 580
<212> DNA
<213> Homo sapien

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<210> 71
<211> 715
<212> DNA
<213> Homo sapien

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<400> 71
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aaaatatatg tgactgcaca tggttctata acaaatacgc aaagaattcg cccgcgctta      180
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<210> 72
<211> 324
<212> DNA
<213> Homo sapien

<400> 72
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acacttaata cgatggcgga cgcg 324

<210> 73
<211> 751
<212> DNA
<213> Homo sapien

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 <211> 186
 <212> DNA
 <213> Homo sapien

<400> 74
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 caaaca 186

<210> 75
 <211> 569
 <212> DNA
 <213> Homo sapien

<400> 75
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 cgaagtactc ttccaggcag aatccttcca tgtagactag aagaattaca tgaacacaag 120
 cctagactgc aagaggagac aggggcaatg tagggagcac tgtaaaaaaa cacatcgaca 180
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 agaaaaggag tttgagctca ccctttata 569

<210> 76
 <211> 255
 <212> DNA
 <213> Homo sapien

<400> 76
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<210> 77
 <211> 1016
 <212> DNA
 <213> Homo sapien

<400> 77
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<210> 78
 <211> 392
 <212> DNA
 <213> Homo sapien

<400> 78
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<400> 80	
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<210> 81
 <211> 141
 <212> DNA
 <213> Homo sapien

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 ccaaaaaaaaa aaaaaatttg g 141

<210> 82
 <211> 631
 <212> DNA
 <213> Homo sapien

<400> 82
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<210> 83
 <211> 486
 <212> DNA

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<222> (348)..(639)
<223> a, c, g or t
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<211> 412
<212> DNA
<213> Homo sapien
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<210> 89
<211> 843
<212> DNA
<213> Homo sapien
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atgtgggtat	gtttatgtta	ttgcatattt	gttatggata	cccttgataa	gcaaataatt		360
gtggtgcttt	at ttgttata	atgcaaatat	tagatatgta	aatctagaaa	tctttattta		420
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tgtacctcgg gcggaccacg ctaagcgaac tctggagata tcctaaactg gggcgacaaa 780
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gcg 843

<210> 90
<211> 454
<212> DNA
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taatttacac attaaatggt cccttagtta tttgtgaagt catttacaat gtataaattc 180
acaacttata taaaaacttt aaatgtataa ttctagcttg ccactttaat aataattggg 240
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<210> 91
<211> 757
<212> DNA
<213> Homo sapien

<220>
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<222> (258)..(697)
<223> a, c, g or t

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agcgacacaa gtaacccaac agaagacgga taaattgaac ttcaagaaaa ttttgtaaaa 180
attgtgcttc aaaggatacc atcaagagag tgagaagaca acctacagaa tgggagaaaa 240
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<211> 667
<212> DNA
<213> Homo sapien
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<221> misc_feature
<222> (72)..(567)
<223> a, c, g or t
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<210> 93
 <211> 581
 <212> DNA
 <213> Homo sapien

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 aatcatcagt gacacgatca gagaaaaaaaa aaaaagaaac gaaaaaaaaa aaaaaagaag 180
 accctcctcg ggcgagcgaa caagctccta atgccccgag acatctctca ccaccacacg 240
 gcggcagcgc acggtaacta gatgggactc accagaacgt ctgcgagaca gagcgttggg 300
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 cagatagccc cggaacgaac agtctaccag acagccaaaa cgaaggaagg cgagagggga 420
 ggcagcgagc ggcagacgag agagagaaga agaagagaga gagaagagag aaggagggag 480
 gaagagagcg gcgaagggag gcgcaaaaga cgggagggga gggcagcgaa gagaacagca 540
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 <211> 619
 <212> DNA
 <213> Homo sapien

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 ttttctttgt tactttctag gacaactcat aattttattc tggaagtcac cttagttcct 240
 gtggttttcc ctcgacaatt tgaaatttct ggctccagaa ctccggattt taagcttgat 300
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 aaatacatat ttttacagt 619

<210> 95

<211> 544
 <212> DNA
 <213> Homo sapien

<400> 95
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 taaaaggaga aataaggaaa tccataatca taatgggaga ttttacacat ctcttttcaga 180
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 aatggacaca cctcgagcag tatatctagt aaatgcactg ctacatgtcc tttacaaata 300
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 ccccatcgtc ttggaaaata atatacttcc tcaaaaatgc atgggtccaa gaagaaatcg 480
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<210> 96
 <211> 588
 <212> DNA
 <213> Homo sapien

<400> 96
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 ctaaagttag tgggtgagaa actgacttta gtatagtтта tcttgcatтт ctттattagg 180
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 gtttcctgта agttttataa gcttctttac tcagttaggg actactgagt tttgttagtt 360
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 ttgttagtgс agtttgаatt ttttagtaaca gaaaacgctg tttctgatat ctagattaca 540
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 <211> 514
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 <213> Homo sapien

<220>

<221> misc_feature
 <222> (102)..(132)
 <223> a, c, g or t

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 aggtataaca tacatgggaa tatcaggagg agaagcaaag agataacagg aatagaaata 240
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 acagcaggaa agaaaggggg ttttgggggg aaaa 514

<210> 98
 <211> 1300
 <212> DNA
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<400> 98
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<211> 340
<212> DNA
<213> Homo sapien

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<211> 888
<212> DNA
<213> Homo sapien

<400> 100
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<211> 937
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<212> DNA
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<211> 793
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<210>	104
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<400> 104

<210> 105

<211> 745

<212> DNA

<213> Homo sapien

<400> 105

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<211> 698
<212> DNA
<213> Homo sapien

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<211> 849
<212> DNA
<213> Homo sapien

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 <211> 605
 <212> DNA
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<210> 109
 <211> 959
 <212> DNA
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 <211> 788
 <212> DNA
 <213> Homo sapien

<400> 110
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 <212> DNA
 <213> Homo sapien

<400> 111
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 gaatgagtaa atcataatth tacctcccca ttttctccta ctcttctcta atcacctatt 180
 ctttgtcatc cccaactacc ttcattgattg gaaagataac gcgagttgtt gagaaaaaaa 240
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<210> 112
 <211> 1101
 <212> DNA
 <213> Homo sapien

<400> 112
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 atatttatca aatgcttagt tgggcataaa aatactccaa ttacagaact tgcattattat 180
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 tcattatact ctaaagttta aaccactggg ccttatatgt tccatatatt atcagattca 300
 tatatagaga taattaacct attccttatg gatgtaaaat aggcgtttca aaattaacat 360
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 cgtatttgta agagtatttc tttatactaa caccaaaaag cacacaatca tcgggacaat 480
 atctatatac ttttagctctt ataccacagc ctgtatcctt caggcaaact ttgccatcct 540
 aaacttggtc ttaaatacct cagtcacctt tttgctgcta ctctagtcca ggccaccata 600
 caagtctcat ctttaactac tgcaatagtc tctgttgaaa gattctcctt atccagtact 660
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<210> 113
 <211> 1181
 <212> DNA
 <213> Homo sapien

<400> 113
 tcgcgctcgc ccactatacg gcgcagtggt tggatcgggt gggcaggtac gtggtagagt 60
 atgctacgag taaaaaattg ggagattcag actcaaattc tcttgagatt agaccaaagt 120
 atatztatca aatgcttagt tgggcataaa aatactccaa ttacagaact tgcataattat 180
 tatccactct ataatagtag agagtcataa cctatgattt gtcccccttg aagagtctat 240
 tcattatact ctaaagttta aaccactgggt ccttatatgt tccatatatt atcagattca 300
 tatatagaga taattaacct attccttatg gatgtaaaat aggcgtttca aaattaacat 360
 agttcaacaa ttgaactctg gagttctctt tccatagttt attctttctc tgatctttcc 420
 cgtatttgta agagtatttc tttatactaa cacaaaaag cacacaatca tcgggacaat 480
 atctatatac tttagctctt ataccacagc ctgtatcctt caggcaaactc ttgccatcct 540
 aaacttgtec ttaaatecct cagtccccct tttgctgcta ctctagtcca ggccaccata 600
 caagtctcat ctttaactac tgcaatagtc tctgttgaaa gattctcctt atccagtact 660
 ctacctttgt ttaccattt caagtgaagt tcctaccaag gagtagtacg gaggtccata 720
 atactctgcy tggaaaaacc tgtcctcagc acaactactt aaactcacat taccataagt 780
 attaatagata actaacagcc tacctttgta atattccaga gtaaaactatc acttttaaaaa 840
 agatataccc ttcactgcyg gaattaccaa gcatgtggaa gagttttttc ataacaactc 900
 ttttcatgac ggattttgcy acagcccttg gaatttcttt ttttaatgat tgaaactaac 960
 cctgtttcac tcacctctt tttcaciaac aggtaacatc ttctttctca gagtaataca 1020
 gaggataacg atgacaacac atgaaataaa ttaaaatggt atgagtgcac ctataggtag 1080
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 atgcgtagac tagtcagttt ccagttgtgt gactagagca g 1181

<210> 114
 <211> 552
 <212> DNA
 <213> Homo sapien

<400> 114
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 gtgtgatggg taattttatt tggtaacatc ctgactgggc cccaaatatt cacttaagtt 180
 attattcatg tggttgttct ggatgaaggc gtttctgtga tgagattaat catttgtaca 240
 tcggtagact ggaataacag cattatttcc ctccctaata tgcagtggat gcctcatcca 300
 attctgttga agttctgtaa tagtaataga atagctaaca tcaatatttt tttcctgtct 360
 tgcaatgcct ggactgtctt tgaagcccta ggacactggg tcttctctgt gccttttttt 420
 tttatttttc tatttttggg gggagaggaa tccttttttt ccaaaacaaa aaaaaagggt 480
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 ggggggagaa at 552

<210> 115
 <211> 44
 <212> PRT
 <213> Homo sapien

<400> 115

Met Val Leu Asn Ser Leu Pro Ser Leu Cys Thr Pro His Asn Ser Thr
 1 5 10 15

Cys Ser Trp Leu Leu Thr Pro Asn Pro Cys Ser Ser Leu Trp Lys Gly
 20 25 30

Phe Leu Leu Val Tyr Val Arg Ile Gly Leu Lys Cys
 35 40

<210> 116
 <211> 62
 <212> PRT
 <213> Homo sapien

<400> 116

Met Glu Thr Phe Phe Phe Ile Lys Ile Phe Trp Leu Thr Glu Tyr Arg
 1 5 10 15

Ser Asn Lys Asn Lys Arg Asn Asn Gly Phe Arg Asn Leu Leu Leu Val
 20 25 30

Val Ala Thr Ile Tyr Ile Thr Lys Arg Glu Ser Gln Ala Asp Leu His
 35 40 45

Val Leu Arg Lys Ala Val Asn Ile Thr Tyr Asp Leu Ile Cys

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55

60

<210> 117
 <211> 38
 <212> PRT
 <213> Homo sapien

<400> 117

Met Tyr Ile Leu Arg Thr Leu Lys Thr Ile Lys Asn Ile Met Ile Thr
 1 5 10 15

Ala Ala Lys Ser Asn Lys Leu Phe Asp Ile Asn Ile Tyr Pro Val Gly
 20 25 30

Ile Lys His Ser Ser Tyr
 35

<210> 118
 <211> 31
 <212> PRT
 <213> Homo sapien

<400> 118

Met Gly Lys Ser Gln Gln Ser Asp Lys Arg Lys Lys Glu Arg Ala Ser
 1 5 10 15

Asn Trp Lys Thr Gly Ser Ile Asn Thr Ile Val Ala Val Cys Gln
 20 25 30

<210> 119
 <211> 65
 <212> PRT
 <213> Homo sapien

<400> 119

Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile Gln Thr Gly Lys Glu
 1 5 10 15

Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met Ile Leu Tyr Leu Glu
 20 25 30

Lys Pro Arg Leu His Gln Lys Thr Leu Glu Leu Ile Asn Lys Phe Ser
 35 40 45

Ile Val Ala Arg Tyr Lys Ile Asn Ile Gln Lys Ser Val Val Phe Leu
 50 55 60

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Tyr
65

<210> 120
<211> 66
<212> PRT
<213> Homo sapien

<400> 120

Met Ala Ser Ser Leu Thr Leu Thr Ala Gln Cys Ala Gly Ile Gly Leu
1 5 10 15

Tyr Ile Pro Leu Ser Glu Leu Asn Glu Ser Met Asp Leu Phe Gln Leu
20 25 30

Phe Leu His Tyr Arg Ala Ser Val Leu Val Ser Cys Tyr Asp Cys Phe
35 40 45

Gly Leu His Trp Leu Asp Asp Cys Ile Ala Trp Asp Tyr His Lys Asp
50 55 60

Pro Gly
65

<210> 121
<211> 26
<212> PRT
<213> Homo sapien

<400> 121

Met Asn Ala Val Phe Tyr Gln Ile Val Gly Ile Asn Trp Leu Ala Ser
1 5 10 15

Ile His Val Ser Ile His Gln Gln Arg Tyr
20 25

<210> 122
<211> 48
<212> PRT
<213> Homo sapien

<400> 122

Met Glu Met Asp Ser Ser Leu His Asn Ser Met Thr Tyr Thr Val Ile
1 5 10 15

Phe Pro Ser Arg His Ile Phe Phe Thr Tyr Phe Arg Leu Asn Ile Leu

20

25

30

Lys Leu Val Asn Glu Ser Ser Lys Tyr Lys Arg Thr Lys Met Glu Lys
 35 40 45

<210> 123

<211> 24

<212> PRT

<213> Homo sapien

<400> 123

Met Cys Lys Phe Val Thr Trp Val Asn Tyr Val Ser Cys Gly Phe Gly
 1 5 10 15

Ile Leu Thr Ile Ser Ser Pro Arg
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<210> 124

<211> 61

<212> PRT

<213> Homo sapien

<400> 124

Met Glu Gly Ser Leu Ser Pro Val Val Leu Leu Phe Leu Phe His Ser
 1 5 10 15

Leu His Ile Val Asp Ile Phe Arg Val Ile Gln Leu Leu Lys Asp Met
 20 25 30

Asp Arg Thr Gln Asn Trp Tyr Gln Asp Leu Pro Thr Gly Asn Tyr Leu
 35 40 45

Met Leu Ser Leu Asn Ser Leu Ser Leu Ser Val Ser Arg
 50 55 60

<210> 125

<211> 82

<212> PRT

<213> Homo sapien

<400> 125

Met Arg Glu Tyr Ser Phe Ser Ala Glu Tyr Phe Ser Arg Pro Leu Cys
 1 5 10 15

Ile Arg Ile Pro Gln Cys Ala Phe Met Glu Val Val Ala Ile Phe Gln
 20 25 30

Lys Phe Asp Ser Tyr Tyr Ser Arg Gly Ser Val Asp Gln His Trp Glu
 35 40 45

Asn Val Asp Ile Ser Thr Cys Lys Gly Ile Pro Leu Leu Lys Asp Phe
 50 55 60

Ser Glu Ser Cys Ser Tyr Ala Gly Phe Phe Asp Ile Pro Lys Phe Cys
 65 70 75 80

Gly Lys

<210> 126
 <211> 52
 <212> PRT
 <213> Homo sapien

<400> 126

Met Met Leu Arg Trp Arg Trp Ala Gly Gln Lys Gln Ser Ala Val Ala
 1 5 10 15

Cys Asn Tyr Cys Val Met Trp Ile Leu Leu Ser Leu Lys Leu Ser Leu
 20 25 30

Leu Gly Tyr Ile Ile Val Arg Leu Gln Arg Lys Ile Ile Ile Thr Thr
 35 40 45

Gly Gln Asn Arg
 50

<210> 127
 <211> 57
 <212> PRT
 <213> Homo sapien

<400> 127

Met Phe Cys Arg Asn Arg Lys Ile His Thr Asn Asn Ser Asn Ile Ser
 1 5 10 15

Lys Asp Pro Gln Met Ala Lys Met Ile Leu Lys Lys Asn Val Phe Gly
 20 25 30

Gly Pro Gln Thr Pro Cys Cys Gln Asn Leu Phe Pro Ser Tyr Asn Asn
 35 40 45

Gln Asn Ser Ile Val Leu Ala Glu Arg
50 55

<210> 128
<211> 53
<212> PRT
<213> Homo sapien

<400> 128

Met Cys Lys Asn Trp Pro Ser Ile Asn Ile Ile His Trp Ile Asn Ile
1 5 10 15

Lys Phe Lys Ile Pro Phe Thr Leu Gly Lys Gly Lys Arg Arg Glu Ile
20 25 30

Tyr Glu Arg Arg Met Leu Gly Val Ser Thr Met Phe Phe Phe Phe Asp
35 40 45

Phe Phe Met Ser Phe
50

<210> 129
<211> 62
<212> PRT
<213> Homo sapien

<400> 129

Met Val Thr Thr Lys Glu Asn Met Tyr Ser Gln Arg Arg Met Arg Lys
1 5 10 15

Glu Ala Thr Phe Val Thr Thr His Lys Thr Thr Asn His Lys Arg Gln
20 25 30

His Lys Trp Arg Glu Leu Gln Gly Lys Ala Ile Arg Cys Lys Pro Ser
35 40 45

Ser Ser Thr Leu Arg Ala Leu Ile Val Met Arg Ala Arg His
50 55 60

<210> 130
<211> 38
<212> PRT
<213> Homo sapien

<400> 130

Met Ser His His Asn Cys Ala Asn Lys His Ser Cys Val Lys Asn Glu
1 5 10 15

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Asp Thr Val Phe Tyr Phe Lys Lys Val Gln Tyr Asn Ile Pro Cys Pro
 20 25 30

Leu Asn Val Glu Ser Phe
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<210> 131
 <211> 25
 <212> PRT
 <213> Homo sapien

<400> 131

Met Arg Arg Ile Leu Ile Asn Gln Lys Lys Cys Tyr Gly Pro Leu Ile
 1 5 10 15

Glu Met Leu Phe Phe Cys Thr Ser Asn
 20 25

<210> 132
 <211> 316
 <212> PRT
 <213> Homo sapien

<400> 132

Ile Arg Asn Asp Lys Gly Asp Ile Ala Thr Asp Pro Thr Glu Val Gln
 1 5 10 15

Thr Ile Ile Arg Glu Tyr Tyr Lys Tyr Leu Tyr Ala Ser Lys Leu Glu
 20 25 30

Asn Leu Gly Glu Met Asp Lys Phe Met Thr Tyr Thr Leu Pro Arg Leu
 35 40 45

Lys Gln Glu Glu Ile Glu Ser Leu Lys Arg Pro Ile Ser Cys Ser Glu
 50 55 60

Ile Glu Ser Val Ile Asn Ser Leu Pro Thr Thr Lys Ser Pro Gly Pro
 65 70 75 80

Asp Gly Phe Thr Ala Glu Phe Tyr Gln Val Tyr Lys Glu Glu Leu Val
 85 90 95

Pro Phe Leu Leu Lys Leu Phe Gln Lys Lys Lys Lys Lys Asn Trp Gly
 100 105 110

Lys Arg Leu Phe Leu Pro Asn Ser Phe Leu Ala Asn Pro Phe Ser Pro
 115 120 125

Leu Glu Leu Pro Lys Ser Gln Ala Arg Asn Thr Leu Gln Lys Lys Asn
 130 135 140

Leu Gln Val Ile Met Phe Ser Asn Ala Pro Ile Arg Ile Val Lys Ile
 145 150 155 160

Leu Leu Leu Arg Lys Asn Tyr Leu Ala Lys Thr Gln Tyr Leu Arg Ile
 165 170 175

Asn His His Ser Lys Gln Gly Leu Val Leu Leu Ile His Tyr Arg Cys
 180 185 190

Gly Ile Tyr Tyr Ser Pro Gly Gly Arg Gln Gly Tyr Ala Val Pro Gly
 195 200 205

Ile Ser Thr Lys Phe Thr Ala Arg Val Val Ile Thr Phe Thr Ile Ile
 210 215 220

Thr Gly Thr Tyr Lys Asp Lys Asn Pro Met Ala Val Ile Pro Gln Leu
 225 230 235 240

Asp Val Gln Lys Lys Ser Ile Ser Ile Lys Gly Pro Ala His Phe Phe
 245 250 255

Ala Leu Ile Lys Ile Leu Leu Ile Gln Ile Leu Ser Gln Ile Ala Gly
 260 265 270

Phe Asn Gly Lys Thr Pro Ser Gln Lys Leu Arg Ala Ile Tyr Asn Lys
 275 280 285

Pro Ala Ser Gln Gly Ala Ser Leu Gly Gly Arg His Ala Glu Lys Phe
 290 295 300

Pro Tyr Thr Ser Gly Val Arg Gln Arg Ala Pro Ile
 305 310 315

<210> 133

<211> 34

<212> PRT

<213> Homo sapien

<400> 133

Met Ala Phe Arg Ile Val Leu Thr Arg Leu Arg Ile Ile Tyr Phe Leu
 1 5 10 15

Leu His His Val Leu Ser Tyr Lys Glu Asp Lys Met Leu Ile Ala Ile
 20 25 30

Gly Asn

<210> 134
 <211> 123
 <212> PRT
 <213> Homo sapien

<400> 134

Gln Glu Ala Leu Ala Arg Ile Ala Cys Gln Asn Asn Met Thr Arg His
 1 5 10 15

His Ser Tyr Arg Ser Val Arg Gly Asn Ala Leu Glu Lys Lys Ser Asn
 20 25 30

Tyr Glu Val Leu Glu Lys Asp Val Gly Leu Lys Arg Phe Leu Pro Lys
 35 40 45

Ser Leu Leu Asp Ser Val Arg Ala Lys Thr Leu Arg Lys Leu Met Gln
 50 55 60

Gln Thr Cys Arg Gln Val Thr Asn Leu Asn Arg Glu Glu Ser Ile Leu
 65 70 75 80

Lys Phe Phe Glu Ile Leu Ser Pro Val Tyr Arg Phe Asp Lys Glu Cys
 85 90 95

Phe Lys Cys Ala Leu Gly Ser Ser Trp Ile Ile Ser Val Glu Leu Ala
 100 105 110

Ile Gly Pro Glu Glu Gly Ile Ser Tyr Leu Thr
 115 120

<210> 135
 <211> 56
 <212> PRT
 <213> Homo sapien

<400> 135

70

Met Leu Val Thr Ile Phe Tyr Leu Ile Leu Lys Ser Ser Gly Ile Ile
1 5 10 15

Met Ser Ile Tyr Leu Ile Leu Gly Met Phe Gln Ile His Phe Gln Glu
20 25 30

Trp Val Ser His Ser Leu Phe Thr Tyr Cys Ile Gln Ile Ile Leu Asp
35 40 45

Leu Ile Ile Ser Lys Ile His Ile
50 55

<210> 136
<211> 38
<212> PRT
<213> Homo sapien

<400> 136

Met Cys Ile Cys Ile Ser Asn Cys Tyr Val Phe Leu Ile Val Asn Leu
1 5 10 15

Phe Asn His Cys Lys Met Thr Phe Phe Ile Leu Ser Asn Met Asn Cys
20 25 30

Ser Lys Ile Tyr Phe Phe
35

<210> 137
<211> 30
<212> PRT
<213> Homo sapien

<400> 137

Met Arg Thr Asn Ile Val Leu Thr Arg Tyr Met Val Leu Arg Ser Val
1 5 10 15

Ile Phe Asn Thr Asn Val Leu His Cys Tyr Ser Ile Tyr Leu
20 25 30

<210> 138
<211> 52
<212> PRT
<213> Homo sapien

<400> 138

Met Phe Gln Gln Lys Leu Thr Gln Glu Gly Lys Lys Ser Gln Lys His
1 5 10 15

Ile Ile Asn Asn Thr Val Cys Asn Leu Ile Ile His Asn Glu Asn Ile
 20 25 30

Asn His Leu Asn Asn Glu Thr Leu Leu Cys Asn Pro Ile Ile Leu Ile
 35 40 45

Asn Lys Ile Leu
 50

<210> 139
 <211> 70
 <212> PRT
 <213> Homo sapien

<400> 139

Met Gly Ser Cys Cys Ser Ser Gln Tyr Val Val Lys Leu Asn Glu Tyr
 1 5 10 15

Ile Arg His Gly Thr Cys Asn Cys Gly Asn Ala Glu Leu Gln Gly Met
 20 25 30

His Ile Leu Lys Phe Asn Gly Tyr His Gln Ile Ala Phe His Ile Ile
 35 40 45

Lys Ile Leu Asn Tyr Lys Gln Glu Asn Thr Ile Met Asp His Ser Asn
 50 55 60

Gln Glu Asn Phe Phe Phe
 65 70

<210> 140
 <211> 52
 <212> PRT
 <213> Homo sapien

<400> 140

Met Thr Leu Leu Asn Phe Tyr Phe Arg Phe Arg Gly Ala Cys Val Met
 1 5 10 15

Ala Val Tyr Cys Lys Pro Tyr Ser Ala Asp Thr Thr Leu Ser Thr Gly
 20 25 30

Gly Pro Leu Asp His Ala Ser Ile Ser Pro Arg Arg Ile Val Cys Thr
 35 40 45

Val Ser Ser Glu
50

<210> 141
<211> 13
<212> PRT
<213> Homo sapien

<400> 141

Met Lys Ala Pro Gly Lys Gln Phe Tyr Ser Asn Arg Ser
1 5 10

<210> 142
<211> 54
<212> PRT
<213> Homo sapien

<400> 142

Met Phe Trp Ile Pro Val Pro Tyr Thr Val Arg Cys Phe Tyr Lys Tyr
1 5 10 15

Phe Leu Leu Val Cys Arg Leu Ser Phe His Ser Leu Asn Ser Ile Leu
20 25 30

Phe Pro Glu Pro Glu Phe Ile Tyr Ser Phe Val Phe Arg Gly Ser Arg
35 40 45

Ser Val Thr Gln Ala Gly
50

<210> 143
<211> 69
<212> PRT
<213> Homo sapien

<400> 143

Glu Leu Ala Glu His Phe Val Cys Phe Gly Tyr Gln Ser Leu Ile Gln
1 5 10 15

Leu Gly Val Phe Ile Asn Ile Phe Ser Ala Ser Val Ala Cys Leu Phe
20 25 30

Ile Leu Leu Thr Val His Phe Thr Ala Gln Phe Leu Ile Leu Met Lys
35 40 45

Ser Thr Leu Ser Ile Phe Ser Phe Met Asn Tyr Ala Phe Gly Val Leu

50

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60

Ser Glu Asn Ser Leu
65

<210> 144
<211> 40
<212> PRT
<213> Homo sapien

<400> 144

Met Pro Ala Cys Met Tyr Thr Arg Leu Arg Thr Pro Asn Pro Lys Thr
1 5 10 15

Ile His Cys Ile Glu Cys Val Val Phe Gln Phe Phe Cys Thr Ser Ala
20 25 30

Ile Leu His Leu Gln His Thr Ala
35 40

<210> 145
<211> 35
<212> PRT
<213> Homo sapien

<400> 145

Met Lys Gln Ala Lys Lys Lys Lys Lys Arg Lys Glu Arg Lys Lys Lys
1 5 10 15

Lys Glu Arg Glu Arg Gly Arg Glu Glu Gly Gly Arg Lys Lys Glu Arg
20 25 30

Gly Gly Arg
35

<210> 146
<211> 46
<212> PRT
<213> Homo sapien

<400> 146

Met Cys Ile Pro Glu Lys Thr Gly His Phe Ile Gln Asp Gln Glu His
1 5 10 15

Pro Thr Lys Lys Gln Lys Gln Arg Glu Ile Ser Phe Val Phe Val Ser
20 25 30

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100

Gln Phe Lys Thr Arg Asn Asn Met Pro Ala Tyr Gly Phe Ser
 35 40 45

<210> 147
 <211> 45
 <212> PRT
 <213> Homo sapien

<400> 147

Met Phe Gln Lys Lys Ser Arg Gly Ser Gln Ile Ser Leu Lys Lys Tyr
 1 5 10 15

Phe Thr Thr Tyr Phe Phe Ser Gln Ile Cys His Met Glu Leu Cys Ile
 20 25 30

Ile Ile His Met Asn Ser Gln Phe Ile Thr Tyr Leu Leu
 35 40 45

<210> 148
 <211> 70
 <212> PRT
 <213> Homo sapien

<400> 148

Met Ala Phe Tyr Leu Ile Met Leu Ile Lys Thr Leu Lys Ala Lys His
 1 5 10 15

Phe Glu Ala Leu Glu Asn Leu Ser Thr Asn Tyr Ala Arg Val Tyr Tyr
 20 25 30

Lys Leu Ile Ile Lys Asp Thr Ile Val Thr Ala Arg Gly Gly Ala Arg
 35 40 45

Lys Pro Asn Leu Ala Ile Ser Ser His Gly Gly Arg Arg Ala Ala Leu
 50 55 60

Glu Gly Pro Leu Pro Ile
 65 70

<210> 149
 <211> 104
 <212> PRT
 <213> Homo sapien

<400> 149

Arg Cys Gly Asn Gln Val His Glu Thr Asn Pro Leu Glu Met Leu Arg

147
 148
 70
 148
 149

1 5 10 15 75
 Leu Asp Asn Thr Leu Glu Glu Ile Ile Phe Lys Leu Val Pro Gly Leu
 20 25 30
 Arg Glu Gln Glu Leu Glu Arg Glu Ser Glu Phe Trp Lys Lys Asn Lys
 35 40 45
 Pro Gln Glu Asn Gly Gln Asp Asp Thr Ser Lys Ala Asp Lys Pro Lys
 50 55 60
 Val Asp Glu Glu Gly Asp Glu Asn Glu Asp Asp Lys Asp Tyr His Arg
 65 70 75 80
 Ser Asp Pro Gln Ile Ala Ile Cys Leu Asp Cys Leu Arg Asn Asn Gly
 85 90 95
 Gln Ser Gly Asp Asn Val Val Lys
 100

<210> 150
 <211> 50
 <212> PRT
 <213> Homo sapien

<400> 150

Met Ser Leu Tyr Leu Glu Lys Lys Ser Asn Asn Thr Thr Ser Val Asn
 1 5 10 15

Phe Cys Ser Ser Glu Lys Ser Ile Ser Ile Thr Pro Val Gly Ser Ser
 20 25 30

Arg Ser Tyr Ile Pro Pro Leu Ala Lys Val Arg Leu Ile Lys Leu Trp
 35 40 45

Gly Gly
 50

<210> 151
 <211> 54
 <212> PRT
 <213> Homo sapien

<400> 151

Met Val Leu Leu Ser Ser Ala Met Ser Ser Gln Ile Phe Ser Leu Leu
 1 5 10 15

Thr Leu Ser Val Phe Gly Lys Gly Val Met Lys Tyr Pro Ile Ile Thr
 20 25 30

Ile Asp Ser Ser Ile Cys Pro Cys Ser Ser Phe Ser Phe Cys Ser Thr
 35 40 45

Tyr Phe Tyr Ala Ile Leu
 50

<210> 152
 <211> 26
 <212> PRT
 <213> Homo sapien

<400> 152

Met Leu Pro Met Ser Leu Arg Arg Tyr His His Tyr Asn Tyr Ser Leu
 1 5 10 15

Ser Trp Tyr Gln Trp Lys Val Asn Leu Thr
 20 25

<210> 153
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 153

Met Gly Gln Ile Lys Ser Leu Gly Ser Asp Asp Gln Met Thr Arg Ser
 1 5 10 15

Ile Cys Lys Thr Ile Leu Asn Phe Gly Glu Ser Phe Pro Ile Phe Thr
 20 25 30

Ala Trp Ile Pro
 35

<210> 154
 <211> 49
 <212> PRT
 <213> Homo sapien

<400> 154

Met Ser Pro Leu Val Asn Trp Ser Lys Pro Asn Lys Leu Pro Thr Ile
 1 5 10 15

seq: 100% identical to the sequence of the human protein

Lys Pro Thr Ser Asn Pro Cys Pro Ser Leu Pro Phe Phe Ala Phe Phe
 20 25 30

Asn Gly Lys Glu His Lys Arg Arg Ile Gly Cys Leu Phe Ile Ser Phe
 35 40 45

Phe

<210> 155
 <211> 54
 <212> PRT
 <213> Homo sapien

<400> 155

Met Ser Gln Lys Val Thr Arg Thr Pro Lys Val Val Glu Asn Leu Ile
 1 5 10 15

Asn Arg His Asn Asn Pro Lys Met Ser Trp Asn Cys Ser Lys Lys Met
 20 25 30

Gln Thr Ser Gln Leu Gln Gly Asn Phe Arg Asn Asn Arg Ser Asn Phe
 35 40 45

Gln Arg Ser Ser Ser His
 50

<210> 156
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 156

Tyr Ile Leu Asn Phe Phe Tyr Ala Phe Leu Cys Val Val Tyr His Val
 1 5 10 15

Phe Ser Arg Ile Ser Leu Asn Phe Tyr Tyr Tyr Tyr Tyr Leu Asp Thr
 20 25 30

Val Ser His Tyr Val Ala Gln Gly Gly Leu Glu Leu Leu Gly Ser Ser
 35 40 45

Asn Pro Pro Thr Ser Ala Ser His Val Ala Gly Thr Thr Gly Met Tyr
 50 55 60

Leu Cys Leu Val Phe Ser Ala Leu

65

70

<210> 157
 <211> 69
 <212> PRT
 <213> Homo sapien

<400> 157

Met Asp Leu Arg Thr His Phe Leu Asp Gln Ile Asn Leu Glu Asn Ala
 1 5 10 15

Ile Leu Met Pro Ser Tyr Leu Arg Thr Val Ile Tyr His Phe Asn Ser
 20 25 30

Phe Ser Ala Met Ser His Met Gly Arg Thr Lys His Leu Leu Thr Asn
 35 40 45

Lys Arg Asp Ser Glu Arg Lys Leu Lys Ser Glu Ile Leu Val Glu Lys
 50 55 60

His Ser Lys Arg Ile
 65

<210> 158
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 158

Met Ser Ser Leu Ala Ala Thr Gln Thr Arg Lys Pro Trp Glu Phe Pro
 1 5 10 15

Ser Ala Val Val Gln Arg Arg Tyr Arg Asn Val Thr Leu His Leu Ile
 20 25 30

Val Thr Cys Ser Val Asn Arg Ile Ala Ser Thr Leu Ala Pro
 35 40 45

<210> 159
 <211> 62
 <212> PRT
 <213> Homo sapien

<400> 159

Met Gln Asn Glu Ser Leu Gln Gly Lys Gln Gly Ile Gln Lys Arg Asn
 1 5 10 15

Lys Asn Cys Lys Met Phe Ser Cys Gln Arg Thr Tyr Lys Lys Leu Ser
 20 25 30

Glu Thr Leu Arg Phe Lys Phe Leu Val Leu Glu Ser Arg Ser Glu Asp
 35 40 45

Pro Gly Glu Arg Glu Lys Gly Val Leu Ser Ile Gln Ile Met
 50 55 60

<210> 160

<211> 46

<212> PRT

<213> Homo sapien

<400> 160

Met Tyr Glu Thr Pro Val His Pro Asp His Asn Pro Thr Phe Leu Thr
 1 5 10 15

Cys Ala Tyr Asn Asn Tyr Leu Ile Ser Asn Met Ser Gln Phe Ser Ile
 20 25 30

Ser Phe Leu Leu Thr Asn Phe Asn Pro Glu Asn Ser Lys Glu
 35 40 45

<210> 161

<211> 25

<212> PRT

<213> Homo sapien

<400> 161

Met Leu Pro Arg Ala Ser Ile Leu Gln Arg Val Leu Phe Lys Asp Tyr
 1 5 10 15

Gly Arg Pro Gln Asp Trp Phe Ile Ile
 20 25

<210> 162

<211> 33

<212> PRT

<213> Homo sapien

<400> 162

Met Leu Ser Thr Gly Ile Leu Ile Leu Ser Leu Gln Lys Ile Asn His
 1 5 10 15

Gln Asn His Trp Ile Gln Ile Lys Ile Lys Thr Asn Ser Ala Gln Tyr

20

25

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Gly

<210> 163
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 163

Met Gly Arg Gly Gln Asn Gln Arg Lys Gly Trp Cys Val Ala Thr Val
 1 5 10 15

Leu Gly Met Gly Ala Val Ser Leu Thr Thr Pro Pro Phe Ala Gly Gln
 20 25 30

Glu Cys Ile Cys Phe Ser Gly Ala Arg Pro Arg Pro Cys Arg Phe Arg
 35 40 45

Cys Glu Phe Trp Pro Leu Gly Arg Pro Pro Gly Gly Arg Thr Cys Phe
 50 55 60

Phe Gly His Cys Leu Leu Asn Arg Ala Gln Met Ala Met
 65 70 75

<210> 164
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 164

Met Ser Thr Ile Ser Ser Ser Pro Leu Pro Asp Ser His Gly Val Thr
 1 5 10 15

His Arg Pro Arg Arg Lys Gly Asn Ser Leu Ile Val Leu Gln Ile Arg
 20 25 30

Asn Gly

<210> 165
 <211> 67
 <212> PRT
 <213> Homo sapien

<400> 165

Met Gly Thr Thr Trp Ile Thr Ser Pro Ala Pro Met Gly Trp Asn Ser
1 5 10 15

Leu Tyr Arg Val Pro Pro Arg Gly Thr Gln Met Gly Arg Pro Ser Ser
20 25 30

Gly Arg Thr Phe Arg Leu Leu Ser Thr Leu Ala Leu Met Asn Asn Ala
35 40 45

Ser Met Asn Asn His Ile Gln Val Phe Leu Gly Lys Lys Lys Val Ile
50 55 60

Ser Leu Glu
65

<210> 166
<211> 46
<212> PRT
<213> Homo sapien

<400> 166

Met Gly Leu Tyr Ile Ile Lys Ile Thr Gln Gly Leu Lys Asn Thr Leu
1 5 10 15

Asn Pro Trp Phe Leu Leu Ser Val Ile Lys His Ser Leu Ser Lys Leu
20 25 30

Ala Cys Val Asn Ala Ile Asn Ile Phe Gln Phe Lys Cys Tyr
35 40 45

<210> 167
<211> 54
<212> PRT
<213> Homo sapien

<400> 167

Met Cys Thr Ala Arg Gly Lys Trp Phe Tyr Thr Leu Val Ser Trp Val
1 5 10 15

Ser Lys Leu Phe Val Gln Thr Leu Ile Cys Phe Leu Glu Lys Val Ala
20 25 30

Asp Lys Pro Ile Trp Lys Met Glu Ile Phe Ile Asn Trp Val Asn Leu
35 40 45

Val Gly Ile Asp Pro Leu
50

<210> 168
<211> 53
<212> PRT
<213> Homo sapien

<400> 168

Met His Ser His Phe Tyr Tyr Phe Ile Leu Tyr Gln Tyr Ile Val Phe
1 5 10 15

Ile Thr Tyr Tyr Tyr Ile Gln Val Phe Leu Leu Ser Ile Leu Ser Arg
20 25 30

Arg Thr Leu Thr Phe Leu Val Val Glu Gly Leu Arg Ile Arg Ser Glu
35 40 45

Tyr Leu Glu Ala Lys
50

<210> 169
<211> 37
<212> PRT
<213> Homo sapien

<400> 169

Met Lys Ser Gly Trp Pro Trp Ser Cys Phe Val Asp Ile Phe Ser Glu
1 5 10 15

His Ser Ser Ser Ser Trp Ser Pro Cys Arg Lys His Leu Lys Ser Ser
20 25 30

Lys Leu Asn Lys Ile
35

<210> 170
<211> 135
<212> PRT
<213> Homo sapien

<400> 170

Met Leu Pro Thr Ile Trp Gly Ala Val Phe Pro Pro Leu Ile Trp Ala
1 5 10 15

Pro Phe Ile Phe Pro Gly Val Pro His Ile Leu Gln Gly Glu His Pro
20 25 30

Ile Gly Pro Lys Pro Cys Ala Ala Thr Ser Pro Phe Pro Tyr Thr Ile
 35 40 45

Phe Ser Pro Ala Val Lys Phe Asn Pro Phe Ser Pro Pro Pro Arg Phe
 50 55 60

Ser Gly Tyr Phe Pro Asp Val Pro Pro Pro Phe Leu Arg Ala Ile Pro
 65 70 75 80

Arg Ser Gly Leu Pro Pro Pro Arg Gly Tyr Ser Pro His Ser Arg Lys
 85 90 95

Gly Ser Pro His Ile Phe Leu Thr Pro Arg Val Tyr Phe Lys Asn Phe
 100 105 110

Pro Arg Ile Trp Gly Ala Leu Leu Leu Leu Lys Pro Glu Asn Leu Leu
 115 120 125

Leu Tyr Gly Gly Pro Leu Ser
 130 135

<210> 171

<211> 57

<212> PRT

<213> Homo sapien

<400> 171

Met Leu Ile Phe Phe Ser Leu Pro Leu Ala Val Ser Val Thr Met Ser
 1 5 10 15

Thr Phe Leu Asp Met Phe Ala His Ile Val Leu Pro Ala Glu Thr Glu
 20 25 30

Asp Leu Gly Leu Gly Leu Ser Ala Leu His Thr Val Pro Ala Cys Ser
 35 40 45

Pro Val Pro Ser Trp Ile Arg Cys Leu
 50 55

<210> 172

<211> 77

<212> PRT

<213> Homo sapien

<400> 172

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Met Glu Gly Tyr Trp Ile Tyr Asn Asn Arg His Ile Ser Lys Val Tyr
1 5 10 15

Asn Leu Arg Phe Tyr Ile Met Val Tyr Thr Pro Trp Lys Pro Leu Lys
20 25 30

Ile Gly Glu Tyr Ile His His Tyr Ser Pro Lys Ile Phe Leu Met Asn
35 40 45

Ser Phe Val Ile Ser Leu Pro Phe Phe Pro Ile Ser Arg Thr Leu Ala
50 55 60

Ser Ser Gly Asn His Gly Ser Ala Phe Ser Leu Tyr Arg
65 70 75

<210> 173
<211> 33
<212> PRT
<213> Homo sapien

<400> 173

Met Met Cys Gln Lys Leu Thr Asp Glu Leu Ile Tyr Ser Val Leu Ser
1 5 10 15

Lys Pro Asp Gly Ala Ser Pro Ala Pro Ile Arg Ile Ala Ala His Cys
20 25 30

Ala

<210> 174
<211> 48
<212> PRT
<213> Homo sapien

<400> 174

Met Thr Glu His Ser Thr Gly Arg Phe Val Trp Tyr Pro Ser Cys Asp
1 5 10 15

Glu Ser Asp His Ile Ser Pro Pro Ile Cys Trp Glu Phe Ala Leu Ala
20 25 30

Gly Gln Lys Met Trp Thr Gly Ile Ala Thr Thr Ala Leu Gln Pro Gly
35 40 45

173
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PRT
Homo sapien
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174
48
PRT
Homo sapien
174

<210> 175
 <211> 57
 <212> PRT
 <213> Homo sapien

<400> 175

Met Ile Leu Asn Ser Leu Ile Ser Pro Leu Gly Leu Ala Leu Ala Lys
 1 5 10 15

Ile Phe Asp Asn Val Ser Gln Asp Ile Leu Arg Asn Asn Thr Lys Lys
 20 25 30

Tyr Gly Leu Asp Ala Asn Ala Ile Lys Val Glu Arg Lys Cys Leu Tyr
 35 40 45

Tyr His Thr Glu Lys Leu Leu Ile Cys
 50 55

<210> 176
 <211> 41
 <212> PRT
 <213> Homo sapien

<400> 176

Met Ile Thr Ile Leu Val His Leu Val Asn Asp Thr Arg Ala Val Leu
 1 5 10 15

Gly Val Pro Gly Lys Gly Ile Pro Glu Ala Gly Lys Leu Thr Ser Thr
 20 25 30

Arg Gly Leu Phe Gly His His Gly Ile
 35 40

<210> 177
 <211> 75
 <212> PRT
 <213> Homo sapien

<400> 177

Met Arg Phe Cys Cys Cys His Phe Ser Thr Val Thr Leu Gly Leu Val
 1 5 10 15

Val Trp Leu Gly Asn Glu Phe Leu Gln Asn Tyr Glu Gly Ile Ala Thr
 20 25 30

Trp Ser Ser Ser Phe Leu Thr Leu Leu Trp Arg Met Arg Ser Leu Lys
 35 40 45

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Ala Ala Trp Val Arg Glu Pro Arg Asn Arg Glu Arg Arg Trp Arg Lys
35 40 45

Thr Trp Ala Val Leu Tyr Pro Ala Ser Pro His Gly Val Ala Arg Leu
50 55 60

Glu Phe Phe Asp His Lys Gly Ser Ser Ser Gly Gly Gly Arg Gly Ser
65 70 75 80

Ser Arg Arg Leu Asp Cys Lys Val Ile Arg Leu Ala Glu Cys Val Ser
85 90 95

Val Ala Pro Val Thr Val Glu Thr Pro Pro Glu Pro Gly Ala Thr Ala
100 105 110

Phe Arg Leu Asp Thr Ala Gln Arg Ser His Leu Leu Ala Ala Asp Ala
115 120 125

Pro Ser Ser Ala Ala Trp Val Gln Thr Leu Cys Arg Asn Ala Phe Pro
130 135 140

Lys Gly Ser Trp Thr Leu Ala Pro Thr Asp Asn Pro Pro Lys Leu Ser
145 150 155 160

Ala Leu Glu Met Leu Glu Asn Ser Leu Tyr Ser Pro Thr Trp Glu Gly
165 170 175

Arg Arg Leu Arg Ser Pro Gly Arg Asp Gly Val Lys Arg Arg Arg Ala
180 185 190

Glu Gly Leu Trp Glu Val Gly Gly Tyr Pro Gly Ala His Gly Glu Val
195 200 205

Arg Ser Arg Lys Ala Leu Arg Ser Gly Phe Arg Leu Ser Asn Arg Val
210 215 220

Cys Leu Pro Gly Ser Gln Phe Trp Val Thr Val Gln Arg Thr Glu Ala
225 230 235 240

Ala Glu Arg Cys Gly Leu His Gly Ser Tyr Val Leu Arg Val Glu Ala
245 250 255

Glu Arg Leu Thr Leu Leu Thr Val Gly Ala Gln Ser Gln Ile Leu Glu
260 265 270

Pro Leu Leu Ser Trp Pro Tyr Thr Leu Leu Arg Arg Tyr Gly Arg Asp
275 280 285

Lys Val Met Phe Ser Phe Glu Ala Gly Arg Arg Cys Pro Ser Gly Pro
 290 295 300

Gly Thr Phe Thr Phe Gln Thr Ala Gln Gly Asn Asp Ile Phe Gln Ala
 305 310 315 320

Val Glu Thr Ala Ile His Arg Gln Lys Ala Gln Gly Lys Ala Gly Gln
 325 330 335

Gly His Asp Val Leu Arg Ala Asp Ser His Glu Gly Glu Val Ala Glu
 340 345 350

Gly Lys Leu Pro Ser Pro Pro Gly Pro Gln Glu Leu Leu Asp Ser Pro
 355 360 365

Pro Ala Leu Tyr Ala Glu Pro Leu Asp Ser Leu Arg Ile Ala Pro Cys
 370 375 380

Pro Ser Gln Asp Ser Leu Tyr Ser Asp Pro Leu Asp Ser Thr Ser Ala
 385 390 395 400

Gln Ala Gly Glu Gly Val Gln Arg Lys Lys Pro Leu Tyr Trp Asp Leu
 405 410 415

Tyr Glu His Ala Gln Gln Gln Leu Leu Lys Ala Lys Leu Thr Asp Pro
 420 425 430

Lys Glu Asp Pro Ile Tyr Asp Glu Pro Glu Gly Leu Ala Pro Val Pro
 435 440 445

Pro Gln Gly Leu Tyr Asp Leu Pro Arg Glu Pro Lys Asp Ala Trp Trp
 450 455 460

Cys Gln Ala Arg Val Lys Glu Glu Gly Tyr Glu Leu Pro Tyr Asn Pro
 465 470 475 480

Ala Thr Asp Asp Tyr Ala Val Pro Pro Pro Arg Ser Thr Lys Pro Leu
 485 490 495

Leu Ala Pro Lys Pro Gln Gly Pro Ala Phe Pro Glu Pro Gly Thr Ala
 500 505 510

Thr Gly Ser Gly Ile Lys Ser His Asn Ser Ala Leu Tyr Ser Gln Arg

515

520

525

Ile Gln Ile Pro Gly Arg Gly Lys Gly Glu Gly Gly Gly
 530 535 540

<210> 180
 <211> 48
 <212> PRT
 <213> Homo sapien

<400> 180

Met Ala Lys Tyr Ile Leu Leu Glu Lys Ser Ala Lys Leu Ile Arg Arg
 1 5 10 15

Ile Tyr Ser Ala Leu Ser Leu Tyr Ile Ser Val Val Leu Ser Ser Lys
 20 25 30

Ala Ile Trp Gln Asn Asn Glu Tyr Ile Tyr Ser Ser Lys Glu His Asn
 35 40 45

<210> 181
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 181

Met Ala Cys Lys Pro Gly Arg Gly Thr Glu Ser Leu Gln Val Lys Pro
 1 5 10 15

Thr Glu Leu Gln Pro Pro Ala His Ser Thr Ala Trp Ala Thr Glu Gln
 20 25 30

Lys Ser Val Ser Lys Lys Lys Lys Lys Lys Leu Leu Val Leu
 35 40 45

<210> 182
 <211> 79
 <212> PRT
 <213> Homo sapien

<400> 182

Met Gln Lys Glu Gly His Arg Arg Leu Asp Ala Ser Pro Ser Phe Leu
 1 5 10 15

Gln Glu Leu Leu Ser Glu Asn Asn Thr Lys His Thr Leu Gln His Thr
 20 25 30

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Thr Ile Leu Trp Asn Leu Ser Thr Asn Ala Leu Tyr Phe Leu His Thr
 35 40 45

Leu Arg Asn Ile Leu Phe Asn Ile Phe Ile Asn Ile Ile Ile Pro Arg
 50 55 60

Asn Val Val Ile Leu Leu Cys Asn Val Thr Pro Tyr Thr Arg Ile
 65 70 75

<210> 183
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 183

Met Met Ile Lys Ser Arg Tyr Leu Leu Pro Gln Arg Phe Phe Ile Tyr
 1 5 10 15

Ser Glu Asn Ile Gln Asn Ser Leu Leu Pro Gly Asn Leu Glu Lys Asn
 20 25 30

Pro Ile

<210> 184
 <211> 114
 <212> PRT
 <213> Homo sapien

<400> 184

Met Gly Val Ser Ser Tyr Trp Val Ser Gly Ser Ser Ser Phe Val Cys
 1 5 10 15

Ser Ala Thr Val Leu Ser Leu Leu Phe Cys Val Phe Gly Leu Phe Ile
 20 25 30

Cys Leu Val Phe Gly Leu Ile Cys Ser Leu Leu Phe Ser Thr Ile Leu
 35 40 45

Phe Cys Val Val Ser Arg Pro Trp Cys Asn Asn Cys Leu Ser Thr Pro
 50 55 60

Ser Gly Val Cys Arg Ser Ser Val Ser Ser Cys Phe Gly Ser Leu Cys
 65 70 75 80

183
 34
 PRT
 Homo sapien
 183
 184
 114
 PRT
 Homo sapien
 184

Tyr Leu Leu Ser Pro Cys Asp Pro Asn Val Arg Ser Leu Phe Leu Tyr
 85 90 95

Phe Ile Phe Phe Phe Leu His Thr Thr Val Tyr Gly Cys Gln Ile Asp
 100 105 110

Lys Gly

<210> 185
 <211> 47
 <212> PRT
 <213> Homo sapien

<400> 185

Met Thr Arg Leu Glu Phe His Trp Ser Asn His Gly Ser Leu His Pro
 1 5 10 15

Arg Pro His Gln Phe Gln Glu Ile Leu Pro Pro Gln Gly Ser Arg Glu
 20 25 30

Ala Lys Ile Ile Gly Thr Cys Pro Gly Gly Ala Arg Lys Pro Asn
 35 40 45

<210> 186
 <211> 82
 <212> PRT
 <213> Homo sapien

<400> 186

Met Asn Thr Ser Leu Asp Cys Lys Arg Arg Gln Gly Gln Cys Arg Glu
 1 5 10 15

His Cys Lys Lys Thr His Arg His Pro Pro Trp Pro Pro Leu Ile Ser
 20 25 30

Ala Val Ala Thr Ser Gly Gln Val Ala Pro Ile Gly Ala Gln Met Leu
 35 40 45

Leu Ser Leu Thr Ala Ile Leu Ile Val His Glu Val Ala Cys Ser Ser
 50 55 60

Ala Phe Pro Pro Gln Ala Arg Ser Pro Ala Pro Met Glu His His Lys
 65 70 75 80

Ser Val

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<210> 187
 <211> 85
 <212> PRT
 <213> Homo sapien

<400> 187

Met Glu Phe Gly Phe Glu Arg Pro Pro Gly Gln Val Pro Leu Lys Leu
 1 5 10 15

Leu Leu Pro Phe Phe Phe Gly Pro His Leu Asp Arg Leu Thr Arg Lys
 20 25 30

Pro Met Tyr Ala Ser Ser Ser Ser Ile Cys Glu Lys Phe Lys Leu Cys
 35 40 45

Lys Ser Ser Thr Cys Thr Trp Glu Leu Phe Phe Ile Pro Thr Leu Tyr
 50 55 60

Gln Leu Glu Thr Pro Ile Pro Leu His Leu Arg Glu Glu Thr Thr Pro
 65 70 75 80

Ser Tyr Cys Leu Met
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<210> 188
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 188

Met Pro Cys His Ser Ile Leu Pro Tyr Tyr Thr Ile Phe Ser Phe Lys
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Gly Phe Ile Phe Pro Thr Ser Leu Ser Leu Lys Gly Arg Ser Gln Asn
 20 25 30

Ser Cys Met Gly Ile Thr Pro Val Thr Met His Ile Gly Phe Val Ile
 35 40 45

Asn Ile Ser Glu Lys Ser Asn Met Met Asn Glu Asn Leu Ser Asn Asn
 50 55 60

Val Asn Lys Ala Tyr Arg Ile Gln
 65 70

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<210> 189
 <211> 31
 <212> PRT
 <213> Homo sapien

<400> 189

Met Arg Pro Arg Tyr Asn Asn Leu Phe Ala Leu Phe Phe Leu Pro Leu
 1 5 10 15

Asn Phe Ser Val Val Ser Leu Ala Met Phe Leu Glu Lys Arg Ser
 20 25 30

<210> 190
 <211> 125
 <212> PRT
 <213> Homo sapien

<400> 190

Met Ala Ala Ala Phe Ser Pro Pro Ser Leu Pro Val Pro Ser Leu Leu
 1 5 10 15

Ser Ser Phe Ser Pro Ser Ala Arg Arg Pro Pro Ala Leu Thr Ser Ser
 20 25 30

Pro Pro Pro Pro Pro Val Ala Ser Pro Ala Arg Ala Ala Arg Arg Arg
 35 40 45

Pro Pro Ala Pro Pro Ser Ser His Pro Pro Arg Ala Pro Pro Pro Pro
 50 55 60

Ser Ser Ser Pro Leu Pro Pro Leu Pro Pro Arg Ala Leu Pro Leu Ser
 65 70 75 80

Ala Leu Pro Pro Leu Ala Ser Ser Pro Leu Phe Leu Phe Pro Pro Leu
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Asn Ile Ile Leu Cys Val Trp Arg Asp Ile Leu Phe Val Ser Arg Arg
 100 105 110

Arg Phe Lys His Thr His Cys Ser His Thr His Gly Arg
 115 120 125

<210> 191
 <211> 57
 <212> PRT

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<213> Homo sapien

<400> 191

Met Ile Leu Lys Leu Leu Gln Gln Leu Tyr Lys Val Thr Gln Asn His
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Val Thr Leu Phe Ser Tyr Leu Ser Leu Leu Leu Pro Asp His Cys Gln
20 25 30

His Asn Phe Tyr Thr Ser Ser Pro Gln Ser Ala Ser Leu Gly His Ala
35 40 45

Pro Gln Tyr Ala Val Ile Phe Phe Val
50 55

<210> 192

<211> 19

<212> PRT

<213> Homo sapien

<400> 192

Met Ser Thr Leu Leu Met Asn Pro Ile Lys Cys Thr Pro Tyr Cys Lys
1 5 10 15

Leu Gln Val

<210> 193

<211> 33

<212> PRT

<213> Homo sapien

<400> 193

Met Arg Lys Ile Tyr Gly Gly His Val Thr Arg Leu Thr Asn Asn Leu
1 5 10 15

Tyr Cys Pro Gly Gly Ala Arg Lys Pro Asn Ser Ser Thr Leu Arg Ala
20 25 30

Leu

<210> 194

<211> 53

<212> PRT

<213> Homo sapien

<400> 194

Met Ala Trp Leu Ile Phe Phe Val Phe Phe Val Glu Thr Gly Phe His
 1 5 10 15

His Val Ala Gln Gly Gly Leu Lys Leu Leu Ser Ser Ser Asn Gln Pro
 20 25 30

Pro Lys Val Phe Gly Ile Thr Gly Ala Thr Tyr Leu Ala Gln Pro Lys
 35 40 45

Ile Val Phe Val Ser
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<210> 195

<211> 41

<212> PRT

<213> Homo sapien

<400> 195

Met Arg Leu Cys Val Ser Met Leu Ile Ser Tyr Leu Ile Lys Arg Arg
 1 5 10 15

Lys Lys Tyr Ser Pro Glu His Val Ser Arg Phe Gln Ile Ile Ile His
 20 25 30

Ala Arg Asp Arg Phe Lys Gln Asp Leu
 35 40

<210> 196

<211> 78

<212> PRT

<213> Homo sapien

<400> 196

Met Asn Ser Gln Val Phe Val Leu Ala Cys Pro Arg Pro Ser Tyr Tyr
 1 5 10 15

Pro Lys Arg Trp Leu Cys Ser Leu Cys Ile Trp Val Thr Ser Thr Lys
 20 25 30

Ser Ile Ser Asn Tyr Leu Lys His Ser Val Ser Ser Ile Cys Lys Met
 35 40 45

Arg Ile Asn Asn Val Thr Ser Gln Leu Thr Gly Cys Ser Glu Asp Ser
 50 55 60

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Homo sapien
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PRT
Homo sapien
196

Thr Arg Tyr Cys Ile Gln Ile Thr Ser Val Leu Leu Thr Ser
65 70 75

<210> 197
<211> 38
<212> PRT
<213> Homo sapien

<400> 197

Met Leu Ala Leu Ala Gly Val His Leu Pro Gly Ala Ala Arg Lys Pro
1 5 10 15

Ile Pro Ala His Cys Ala Cys Ile Ser Asp Gly Ala Arg Leu Thr Gly
20 25 30

Thr Phe Ser Phe Phe Leu
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<210> 198
<211> 27
<212> PRT
<213> Homo sapien

<400> 198

Met Gln Thr Glu Lys Val Cys Gln Ser Phe Gly Tyr Val Tyr Val Ile
1 5 10 15

Ala Tyr Leu Leu Trp Ile Pro Leu Ile Ser Lys
20 25

<210> 199
<211> 15
<212> PRT
<213> Homo sapien

<400> 199

Met Leu Leu Glu Gly Phe Val Phe Val Leu Leu Leu Lys Leu Trp
1 5 10 15

<210> 200
<211> 106
<212> PRT
<213> Homo sapien

<400> 200

Met Gly Leu Thr Arg Thr Ser Ala Arg Gln Ser Val Gly Glu Tyr Thr
1 5 10 15

<400> 202

Met Ala Asn Trp Ile Met Leu Met Ile Leu Asn Leu Lys Ile Ser Asn
1 5 10 15

Lys Asn Phe Asn Ile His Lys Ala Lys Thr Asp Lys Ala Lys Arg Arg
20 25 30

Asn Lys Glu Ile His Asn His Asn Gly Arg Phe Tyr Thr Ser Leu Ser
35 40 45

Glu Thr Asp Ile Cys Arg Gln Lys Leu Val Arg Ile Gln Asn Met Leu
50 55 60

Thr Gln Leu Asn Lys Met Asp Thr Pro Arg Ala Val Tyr Leu Val Asn
65 70 75 80

Ala Leu Leu His Val Leu Tyr Lys Tyr Glu
85 90

<210> 203

<211> 65

<212> PRT

<213> Homo sapien

<400> 203

Met His Lys Asn Arg Gln Phe Thr Gln Lys Glu Ile His Thr Ser Trp
1 5 10 15

Ser Leu Asn Thr Leu Arg Arg Cys Ser Thr Ser Leu Leu Ile Lys Lys
20 25 30

Cys Lys Ile Asn Tyr Thr Lys Val Ser Phe Ser Pro Thr Asn Phe Ser
35 40 45

Lys Lys Ile Pro Gln Leu Asp Asn Gly Gly Val Ser Tyr Leu Leu Ser
50 55 60

Leu
65

<210> 204

<211> 34

<212> PRT

<213> Homo sapien

<400> 204

Met Leu Thr Glu Ser Arg Glu Glu Lys Asn Leu Arg Lys Arg Arg Lys
 1 5 10 15

Leu Asp Phe Trp Phe Phe Glu Thr Ala Gly Lys Lys Gly Gly Phe Gly
 20 25 30

Gly Lys

<210> 205
 <211> 48
 <212> PRT
 <213> Homo sapien

<400> 205

Met Glu His Phe Tyr Ser Cys Gly Asp Ile Gly Phe Tyr Leu Val Asn
 1 5 10 15

Leu Leu Phe Lys Leu Phe Ile Thr Tyr Ser Asp Asn Phe Leu Lys Arg
 20 25 30

Gln Ile Ile Phe Asn Tyr Leu Ile Leu Arg Lys Met Pro Pro His Phe
 35 40 45

<210> 206
 <211> 33
 <212> PRT
 <213> Homo sapien

<400> 206

Met Leu Ile Phe Asn Cys Pro Asn Tyr His Leu Phe Val Phe Leu Thr
 1 5 10 15

Ser Arg Thr Lys Leu Gln Ile Val Ser Ile Thr Asn Phe Tyr Phe Cys
 20 25 30

Lys

<210> 207
 <211> 63
 <212> PRT
 <213> Homo sapien

<400> 207

Met Thr Lys Gln Met Ala Ala Val Glu Thr Ser Phe Pro Pro Leu Pro
 1 5 10 15

Val Ser Val Tyr Ile Leu Met Asn Ala Asp Thr Val Leu Val Ala Phe
 20 25 30

Ser Ala Asp Thr Val Leu Thr Ser Trp Lys Phe Gly Lys Thr Ser Gly
 35 40 45

Asn Asn Phe Ser Leu Pro Val Leu Lys Leu Phe Arg Thr Phe Ile
 50 55 60

<210> 208

<211> 32

<212> PRT

<213> Homo sapien

<400> 208

Met Ile Val Pro Ala Arg Ala Pro Leu Glu Ser Thr Asn Ser Ser Thr
 1 5 10 15

Leu Arg Arg Ile Asn Asp Arg Ala Arg Thr Thr Trp Ser Leu Phe Ser
 20 25 30

<210> 209

<211> 53

<212> PRT

<213> Homo sapien

<400> 209

Met Ser Glu Arg Gly Phe His Gln Gln Lys His Ser Ile Gly Cys Ile
 1 5 10 15

Val Ile Leu Leu Tyr Asn His Ile Ile His Ile Tyr Cys Tyr Phe Leu
 20 25 30

Leu Leu Lys Ile Arg Trp Leu Ile His Asp Leu Leu His Leu Cys Gly
 35 40 45

Gln Arg Pro Ser Ser
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<210> 210

<211> 56

<212> PRT

<213> Homo sapien

<400> 210

101

Met Gly Val Ser His Lys Ser Met Gly Lys Ala Leu Ser Pro Thr Phe
1 5 10 15

Tyr Phe Phe Leu Phe Ile Tyr Cys Leu Leu Leu Thr Met Tyr Pro Pro
20 25 30

Thr Pro Pro Asn Ile Ser Val Thr Phe Lys Gly Ala Ser Thr Phe Leu
35 40 45

Phe Thr Ala Val Thr Leu Asn Ala
50 55

<210> 211

<211> 67

<212> PRT

<213> Homo sapien

<400> 211

Met Thr Leu Ala Leu Phe Pro Ser Asp Ile Arg Ile Phe Pro Val Lys
1 5 10 15

Val Leu Leu Leu Val Asn Ser His Cys Gly Arg Leu Pro Cys Leu Ser
20 25 30

Ser Lys Gln Gln Val Cys His Asn Gln Ala Phe Pro Tyr Pro Arg Asn
35 40 45

Leu Ser Arg His Ile Ile Ala Gln Phe Gln Ser Pro Thr Ile Ser Pro
50 55 60

Phe Leu Pro
65

<210> 212

<211> 117

<212> PRT

<213> Homo sapien

<400> 212

Met Leu Cys Asp Arg Arg Glu Thr Ile Ser His Gln Ala Thr Ala Phe
1 5 10 15

Gly Pro Lys Gly Tyr Pro His Asn Cys Gly Asp Gln Asn Ser Gly Asp
20 25 30

Pro Leu Ser Val Pro Gly Arg Pro Met Gly Arg Trp Lys Ser Arg Leu

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Lys Arg Leu Val Ala Arg Pro Glu Gly Ala Pro Asn Thr Gly Arg Gln
 50 55 60

Arg Pro Leu Arg Ala Asn Pro Gly Ala Gln His Ala Phe Asp Val Gln
 65 70 75 80

Lys Asp Phe Phe Ser Ala Gln Ile Leu Leu Val Gly Gly Gly Tyr Asn
 85 90 95

Trp Lys Ile Asp Gly Thr Lys His Leu Phe Cys Phe Tyr Lys Ala Ser
 100 105 110

Ile Gln Leu Ile His
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<210> 213

<211> 39

<212> PRT

<213> Homo sapien

<400> 213

Met Ala Ala Asn Asn Phe Ser Gly Leu Gly Asp Glu Arg Leu Ser Cys
 1 5 10 15

Gln Thr Gly Gln Ile Glu Arg His Thr Thr Phe Trp Gln Leu Ile Tyr
 20 25 30

Phe Leu Phe Ile Leu Phe Tyr
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<210> 214

<211> 48

<212> PRT

<213> Homo sapien

<400> 214

Met Asp Ala Phe Leu Val Ile Ile Cys Tyr Lys Lys Pro Ser Pro Lys
 1 5 10 15

Ile Asn Asn Met Pro Glu Cys Ser His Phe Tyr Leu Leu Tyr Ala Arg
 20 25 30

Glu Ala Pro Val Ile Thr Lys Thr His Cys Pro Cys Pro Arg Ile Lys
 35 40 45

<210> 215
 <211> 23
 <212> PRT
 <213> Homo sapien

<400> 215

Met Ile Gly Lys Ile Thr Arg Val Val Glu Lys Lys Thr Leu Gly Leu
 1 5 10 15

Val Ser Val Pro Gln Lys Ser
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<210> 216
 <211> 49
 <212> PRT
 <213> Homo sapien

<400> 216

Met Leu Arg Val Lys Asn Trp Glu Ile Gln Thr Gln Ile Leu Leu Arg
 1 5 10 15

Leu Asp Gln Ser Ile Phe Ile Lys Cys Leu Val Gly His Lys Asn Thr
 20 25 30

Pro Ile Thr Glu Leu Ala Tyr Tyr Tyr Pro Leu Tyr Asn Ser Arg Glu
 35 40 45

Ser

<210> 217
 <211> 89
 <212> PRT
 <213> Homo sapien

<400> 217

Met Arg Leu Ile Ile Cys Thr Ser Val Asp Trp Asn Asn Ser Ile Ile
 1 5 10 15

Ser Leu Pro Asn Val Glu Trp Met Pro His Pro Ile Leu Leu Lys Phe
 20 25 30

Cys Asn Ser Asn Arg Ile Ala Asn Ile Asn Ile Phe Phe Leu Ser Cys
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Asn Ala Trp Thr Val Phe Glu Ala Leu Gly His Trp Phe Phe Ser Val
50 55 60

Pro Phe Phe Phe Ile Phe Leu Phe Leu Gly Gly Glu Glu Ser Phe Phe
65 70 75 80

Ser Lys Thr Lys Gln Lys Gly Leu Leu
85

100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995